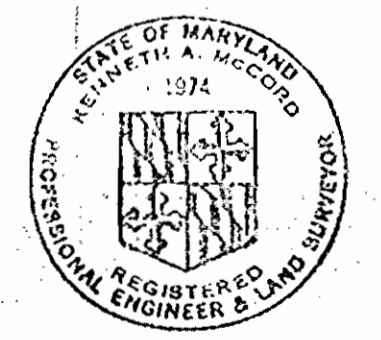


CONTRACT NO. 2817D-W&S
VILLAGE OF KINGS CONTRIVANCE
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

QUANTITIES			
ITEM	BID	AS-BUILT	MATERIAL / SUPPLIER
8" Sewer	1,120 LF	1,120 LF	CERTAINTEEL TYPE 2400
Manholes	75 VF	65 VF	ATLANTIC P.R. AGT
12" Water	4,965 LF	4,961 LF	GRIFFIN D.I.P. CLASS 52
8" Water	430 LF	438 LF	GRIFFIN D.I.P. CLASS 52
6" Water	390 LF	372 LF	GRIFFIN D.I.P. CLASS 52
Fire Hydrants	5	5	A. P. SMITH

*NO SHC's
*NO WHC's



Kenneth A. McLeod

Village of Kings Contrivance
Section 3, Area 1, Phase I
Contract No. 2817D-W&S

Revised November 7, 1978

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Richard E. Brendenborg</i> 10/24/78 DIRECTOR OF PUBLIC WORKS - DATE	CONTRACT NO. 2817D-W&S <i>W. O. 7263-2E</i> 10-23-78 CHIEF BUREAU OF ENGINEERING - DATE	LOCATION MAP OF WATER & SEWER MAINS	COLUMBIA VILLAGE OF KINGS CONTRIVANCE ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 1 OF 5 SCALE 1" = 600'
---	--	---	--	--	---------------------------------------

W. O. 7263-2E

45-PL11T

October 13, 1978

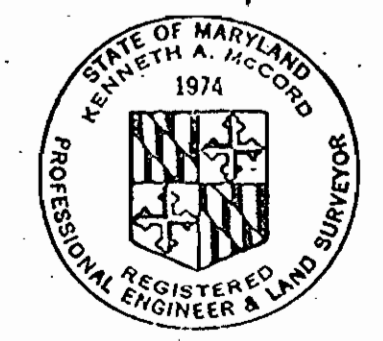
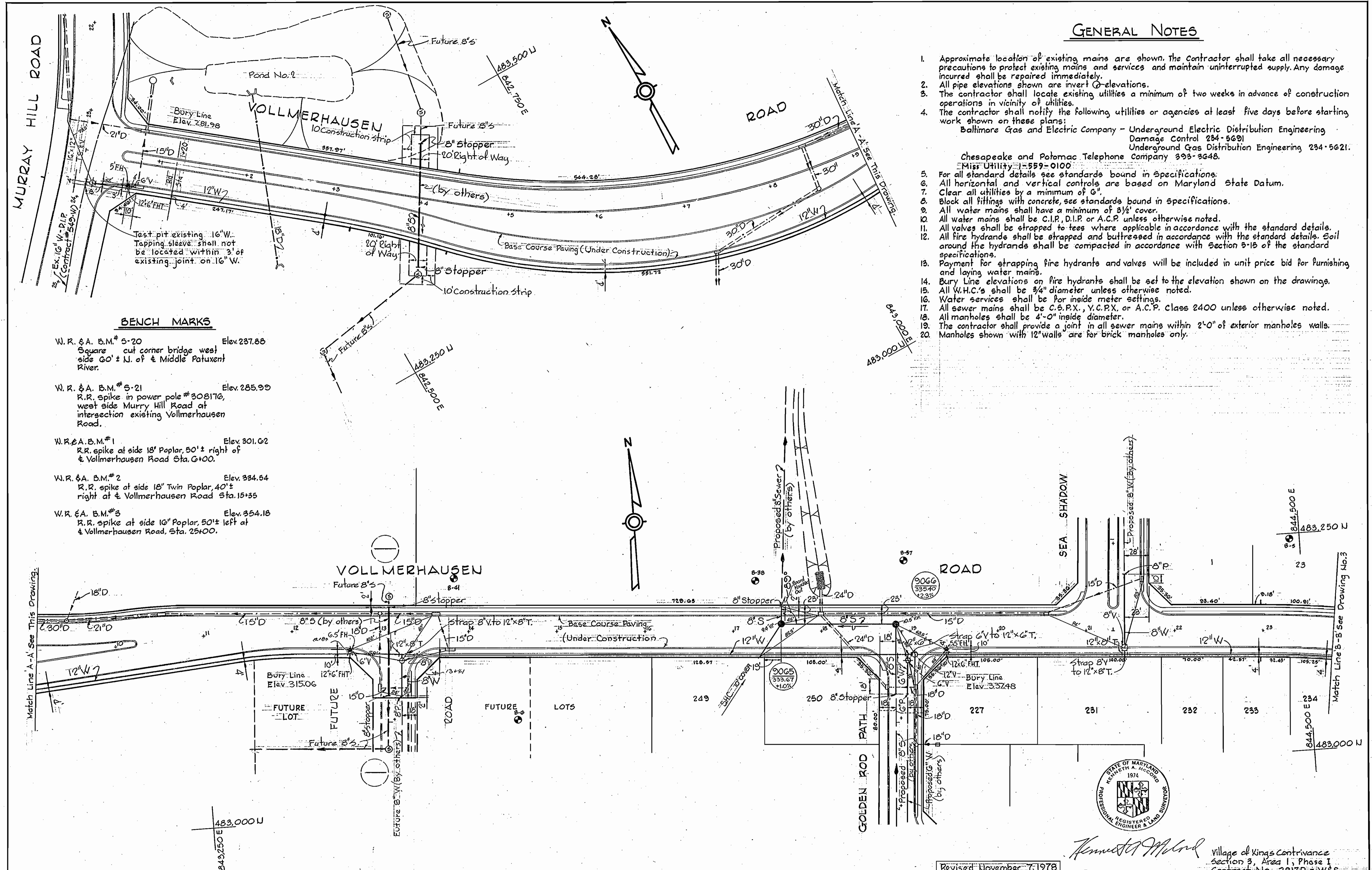
WS 817-W&S/1

GENERAL NOTES

1. Approximate location of existing mains are shown. The contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately.
2. All pipe elevations shown are invert elevations.
3. The contractor shall locate existing utilities a minimum of two weeks in advance of construction operations in vicinity of utilities.
4. The contractor shall notify the following utilities or agencies at least five days before starting work shown on these plans:
 Baltimore Gas and Electric Company - Underground Electric Distribution Engineering
 Damage Control 234-5621
 Undergound Gas Distribution Engineering 234-5621
 Chesapeake and Potomac Telephone Company 393-3648.
 Miss Utility 1-559-0100
5. For all standard details see standards bound in Specifications.
6. All horizontal and vertical controls are based on Maryland State Datum.
7. Clear all utilities by a minimum of 6".
8. Block all fittings with concrete, see standards bound in Specifications.
9. All water mains shall have a minimum of 3 1/2' cover.
10. All water mains shall be C.I.P., D.I.P. or A.C.P. unless otherwise noted.
11. All valves shall be strapped to tees where applicable in accordance with the standard details.
12. All fire hydrants shall be strapped and buttressed in accordance with the standard details. Soil around the hydrants shall be compacted in accordance with Section 5-15 of the standard specifications.
13. Payment for strapping fire hydrants and valves will be included in unit price bid for furnishing and laying water mains.
14. Bury Line elevations on fire hydrants shall be set to the elevation shown on the drawings.
15. All W.H.C.'s shall be 3/4" diameter unless otherwise noted.
16. Water services shall be for inside meter settings.
17. All sewer mains shall be C.S.P.X., V.C.P.X. or A.C.P. Class 2400 unless otherwise noted.
18. All manholes shall be 4'-0" inside diameter.
19. The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manholes walls.
20. Manholes shown with 12" walls are for brick manholes only.

BENCH MARKS

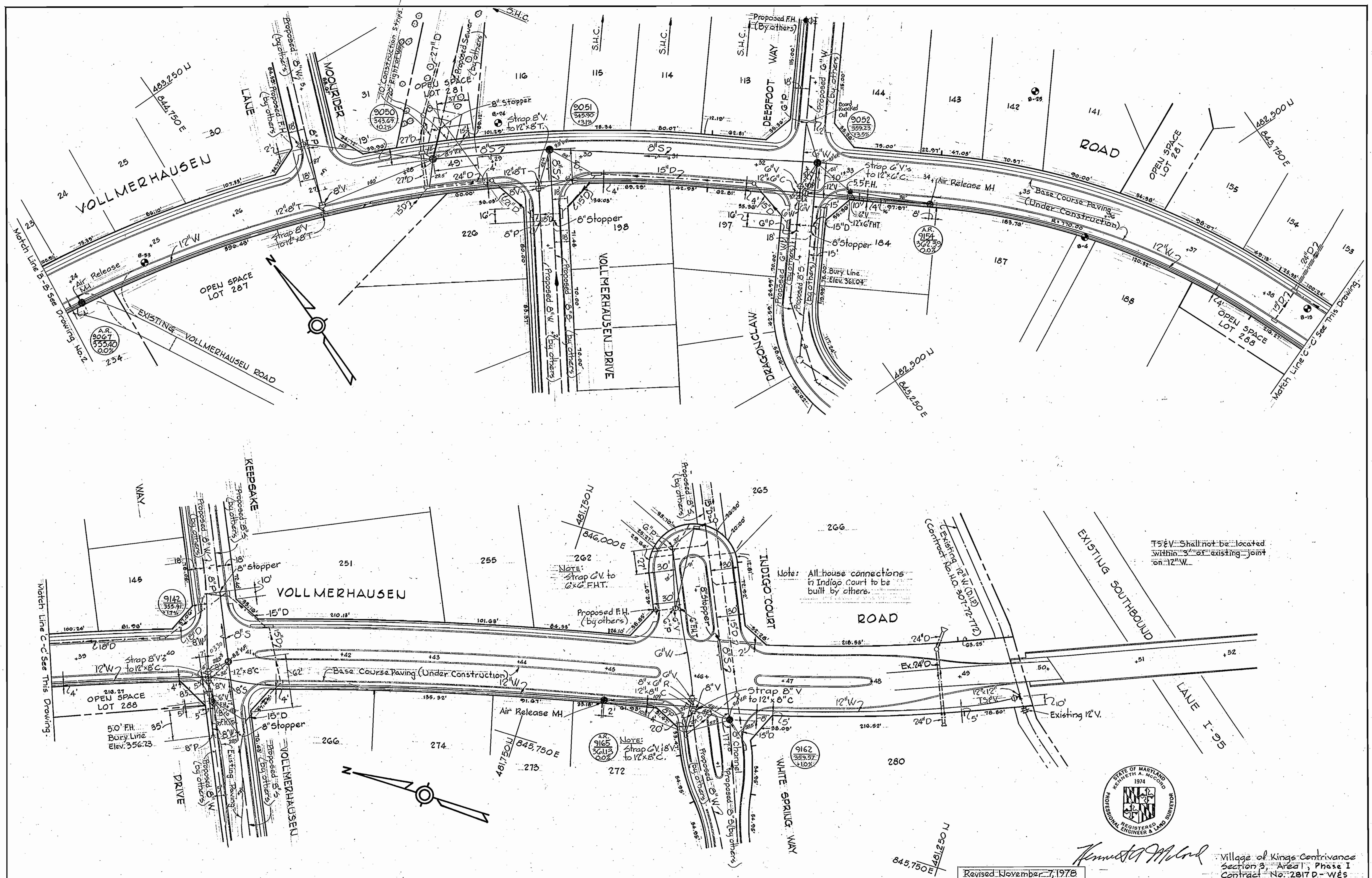
- W.R. & A. B.M.# 5-20 Elev. 237.83
Square cut corner bridge west side 60' ± N. of & Middle Patuxent River.
- W.R. & A. B.M.# 5-21 Elev. 285.99
R.R. spike in power pole # 308176, west side Murry Hill Road at intersection existing Vollmerhausen Road.
- W.R. & A. B.M.# 1 Elev. 301.02
R.R. spike at side 18' Poplar, 50' ± right of & Vollmerhausen Road Sta. G+00.
- W.R. & A. B.M.# 2 Elev. 334.54
R.R. spike at side 18' Twin Poplar, 40' ± right of & Vollmerhausen Road Sta. 15+35
- W.R. & A. B.M.# 3 Elev. 354.18
R.R. spike at side 10' Poplar, 50' ± left of & Vollmerhausen Road, Sta. 25+00.



Kenneth A. McCord
 Village of Kings Contrivance
 Section 3, Area 1, Phase I
 Contract No. 2817D-W&S
 Revised November 7, 1978

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Richard E. Brudenberg</i> 10/24/78 DIRECTOR OF PUBLIC WORKS - DATE <i>W.O. Liberty</i> 10-28-78 CHIEF-BUREAU OF ENGINEERING - DATE	CONTRACT NO. 2817D-W&S	PLAN OF WATER & SEWER MAINS	COLUMBIA VILLAGE OF KINGS CONTRIVANCE ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 2 OF 5 SCALE 1" = 50' AS-BUILT
---	---	------------------------	--------------------------------	--	--

WS 817 - WS12

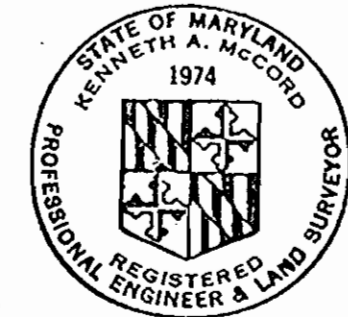


T&E V. Shall not be located within 5' of existing joint on 12" W.

Note: All house connections in Indigo Court to be built by others.

Note: Strap G.V. to 6" x 6" F.H.T.

Note: Strap G.V. 18" to 12" x 8" C.



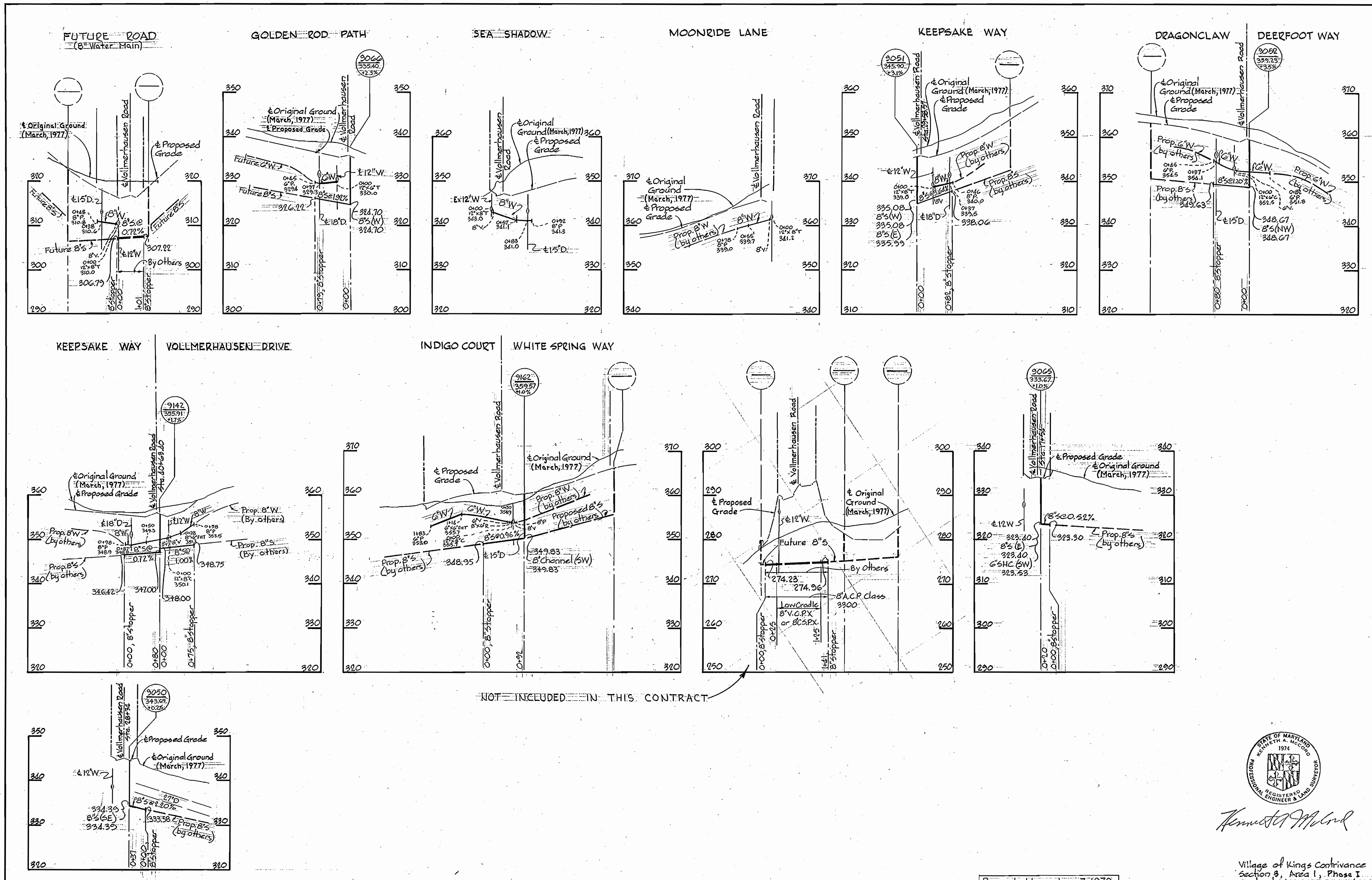
Kenneth A. McCord

Village of Kings Contrivance Section 3, Area 1, Phase I Contract No. 2817 D - W&S

Revised November 7, 1978

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Richard E. Brudenbuck</i> 10/24/78 DIRECTOR OF PUBLIC WORKS - CPE	CONTRACT NO. 2817D-W&S <i>W.O. 11602</i> 10-23-78 CHIEF-BUREAU OF ENGINEERING - DATE	PLAN OF WATER & SEWER MAINS	COLUMBIA VILLAGE OF KINGS CONTRIVANCE ELECTION DISTRICT GUILFORD NO.6	DRAWING NO. 3 OF 5 SCALE 1" = 50'
---	--	--	--------------------------------	---	--------------------------------------

WS 817-WS/3



NOT INCLUDED IN THIS CONTRACT



Kenneth A. McCord

Village of Kings Contrivance
Section 3, Area 1, Phase I
Contract No. 2817 D-W&S

Revised November 7, 1978

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Richard C. Freudenberger 10/24/78</i> <i>W. O. Libort 10-23-78</i> DIRECTOR OF PUBLIC WORKS - DATE CHIEF-BUREAU OF ENGINEERING - DATE	CONTRACT NO. 2817D-W&S	PROFILE OF WATER & SEWER MAINS	COLUMBIA VILLAGE OF KINGS CONTRIVANCE ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 5 OF 5 SCALE H:1"=100' V:1"=10' AS-BUILT
---	--	------------------------	-----------------------------------	--	--

WS 817 - WS/5